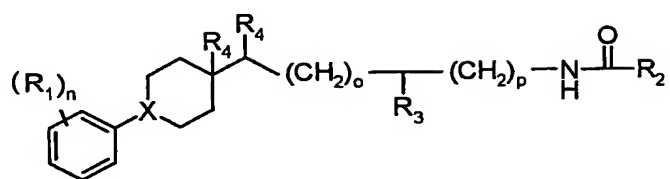


Claims

1. A compound of structural formula (I):



(I)

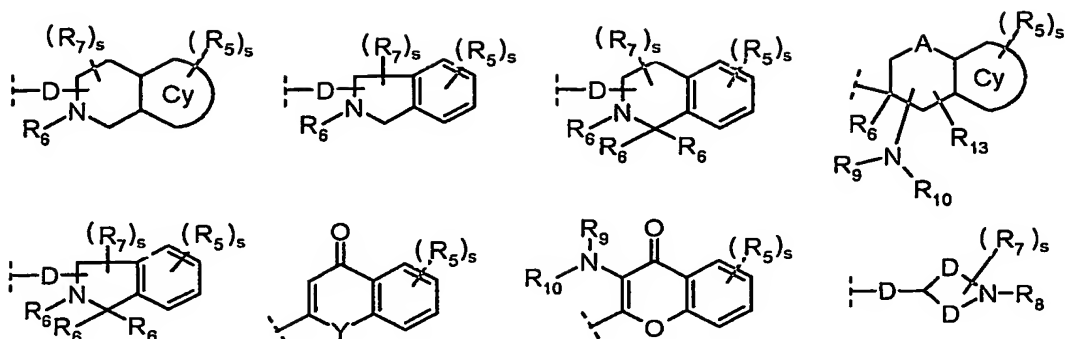
or a pharmaceutically acceptable salt or a solvate thereof, wherein

$R_1$  is independently:

hydrogen,  
hydroxy,  
cyano,  
nitro,  
halo,  
alkyl,  
alkoxy,  
haloalkyl,  
(D)-C(O) $R_{15}$ ,  
(D)-C(O)OR $_{15}$ ,  
(D)-C(O)SR $_{15}$ ,  
(D)-C(O)-heteroaryl,  
(D)-C(O)-heterocyclyl,  
(D)-C(O)N( $R_{15}$ ) $_2$ ,  
(D)-N( $R_{15}$ ) $_2$ ,  
(D)-NR $_{15}$ COR $_{15}$ ,

(D)-NR<sub>15</sub>CON(R<sub>15</sub>)<sub>2</sub>,  
(D)-NR<sub>15</sub>C(O)OR<sub>15</sub>,  
(D)-NR<sub>15</sub>C(R<sub>15</sub>)=N(R<sub>15</sub>),  
(D)-NR<sub>15</sub>C(=NR<sub>15</sub>)N(R<sub>15</sub>)<sub>2</sub>,  
(D)-NR<sub>15</sub>SO<sub>2</sub>R<sub>15</sub>,  
(D)-NR<sub>15</sub>SO<sub>2</sub>N(R<sub>15</sub>)<sub>2</sub>,  
(D)-NR<sub>15</sub>(D)-heterocyclyl,  
(D)-NR<sub>15</sub>(D)-heteroaryl,  
(D)-OR<sub>15</sub>,  
OSO<sub>2</sub>R<sub>15</sub>,  
(D)-[O]<sub>v</sub>(C<sub>3</sub> - C<sub>7</sub> cycloalkyl),  
(D)-[O]<sub>v</sub>(D)aryl,  
(D)-[O]<sub>v</sub>(D)-heteroaryl,  
(D)-[O]<sub>v</sub>(D)-heterocyclyl (wherein heterocyclyl excludes a heterocyclyl containing a single nitrogen when v=1),  
(D)-SR<sub>15</sub>,  
(D)-SOR<sub>15</sub>,  
(D)-SO<sub>2</sub>R<sub>15</sub> or  
(D)-SO<sub>2</sub>N(R<sub>15</sub>)<sub>2</sub>,  
wherein alkyl, alkoxy, cycloalkyl, aryl, heterocyclyl and heteroaryl are unsubstituted or substituted;

R<sub>2</sub> is:



R<sub>3</sub> is independently:

(D)-aryl or

(D)-heteroaryl,

wherein aryl and heteroaryl are unsubstituted or substituted;

R<sub>4</sub> is H or a bond;

each R<sub>5</sub> is independently:

hydrogen,

halo,

alkyl,

haloalkyl,

hydroxy,

alkoxy,

S-alkyl,

SO<sub>2</sub>-alkyl,

O-alkenyl

S-alkenyl

NR<sub>15</sub>C(O)R<sub>15</sub>,

NR<sub>15</sub>SO<sub>2</sub>R<sub>15</sub>,

$N(R_{15})_2$ ,

(D)-cycloalkyl or

(D)-aryl (wherein aryl is phenyl or naphthyl),

(D)-heteroaryl or

(D)-heterocyclyl (wherein heterocyclyl excludes a heterocyclyl containing a single nitrogen), and

wherein aryl, heteroaryl, heterocyclyl, alkyl or cycloalkyl is unsubstituted or substituted, and two adjacent  $R_5$  may form a 4- to 7-membered ring;

each  $R_6$  is independently:

hydrogen,

alkyl,

C(O)-alkyl,

(D)-aryl or

cycloalkyl;

each  $R_7$  is independently:

hydrogen,

alkyl,

(D)-aryl,

(D)-heteroaryl,

(D)- $N(R_9)_2$ ,

(D)- $NR_9C(O)$  alkyl,

(D)- $NR_9SO_2$  alkyl,

(D)- $SO_2N(R_9)_2$ ,

(D)-(O)<sub>r</sub> alkyl,

(D)-(O)<sub>r</sub>(D)- $NR_9COR_9$ ,

(D)-(O)<sub>r</sub>(D)- $NR_9SO_2R_9$ ,

(D)-(O)<sub>r</sub>-heterocyclyl or

(D)-(O)<sub>r</sub>(alkyl)-heterocyclyl;

each R<sub>8</sub> is independently:

hydrogen,  
alkyl,  
(D)-aryl,  
C(O) alkyl,  
C(O)-aryl,  
SO<sub>2</sub>-alkyl or  
SO<sub>2</sub>-aryl;

R<sub>9</sub> and R<sub>10</sub> are each independently:

hydrogen,  
alkyl or  
cycloalkyl, or

R<sub>9</sub> and R<sub>10</sub> together with the nitrogen to which they are attached form a 5- to 8-membered ring optionally containing an additional heteroatom selected from O, S and NR<sub>6</sub>,

wherein alkyl and cycloalkyl are unsubstituted or substituted;

R<sub>13</sub> is:

hydrogen or  
alkyl;

each R<sub>15</sub> is independently:

hydrogen,  
alkyl,  
haloalkyl,  
(D)-cycloalkyl,  
(D)-aryl (wherein aryl is phenyl or naphthyl),  
(D)-heteroaryl or

(D)-heterocyclyl,

wherein heterocyclyl excludes a heterocyclyl containing a single nitrogen, and wherein aryl, heteroaryl, heterocyclyl, alkyl and cycloalkyl is unsubstituted or substituted;

Cy is:

aryl,

5- or 6-membered heteroaryl,

5- or 6-membered heterocyclyl or

5- or 7-membered carbocyclyl;

A is a bond, O, S(O)<sub>u</sub>, NR<sub>8</sub> or CH<sub>2</sub>;

D is a bond or alkylene;

X is N or CH;

Y is O or NR<sub>9</sub>;

n is 1 - 4;

o is 0 - 2;

p is 0 - 2;

r is 0 or 1;

s is 0 - 5;

u is 0 - 2;

v is 0 or 1.

2. The compound of claim 1, wherein

each R<sub>1</sub> is independently:

hydrogen,

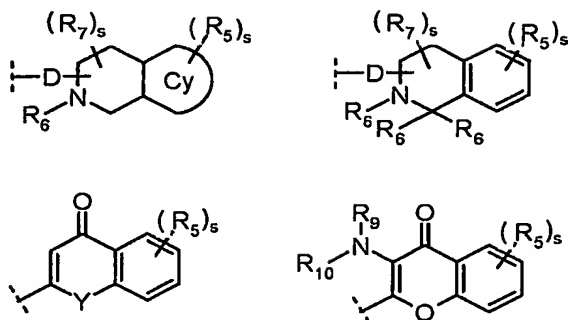
hydroxy,

cyano,

nitro,

halo,  
 alkyl,  
 alkoxy,  
 haloalkyl,  
 $(D)-N(R_{15})_2$ ,  
 $(D)-NR_{15}COR_{15}$ ,  
 $(D)-NR_{15}CON(R_{15})_2$ ,  
 $(D)-NR_{15}C(O)OR_{15}$ ,  
 $(D)-NR_{15}C(R_{15})=N(R_{15})$ ,  
 $(D)-NR_{15}C(=NR_{15})N(R_{15})_2$ ,  
 $(D)-NR_{15}SO_2R_{15}$ ,  
 $(D)-NR_{15}SO_2N(R_{15})_2$  or  
 $(D)$ -heterocyclyl;

$R_2$  is:



$R_3$  is  $(CH_2)$ -phenyl or  $(CH_2)$ -naphthyl, unsubstituted or substituted with one to three substituents selected from the group consisting of cyano, nitro, perfluoroalkoxy, halo, alkyl,  $(D)$ -cycloalkyl, alkoxy and haloalkyl;

each  $R_5$  is independently:

hydrogen,

halo,  
alkyl,  
haloalkyl,  
hydroxy,  
alkoxy,  
S-alkyl,  
SO<sub>2</sub>-alkyl,  
O-alkenyl or  
S-alkenyl;

each R<sub>6</sub> is independently:

hydrogen or  
alkyl;

each R<sub>7</sub> is independently:

alkyl,  
hydrogen,  
(D)-aryl,  
(D)-heteroaryl,  
(D)-N(R<sub>9</sub>)<sub>2</sub>,  
(D)-NR<sub>9</sub>C(O)alkyl or  
(D)-NR<sub>9</sub>SO<sub>2</sub>alkyl;

R<sub>9</sub> and R<sub>10</sub> are each independently:

hydrogen,  
alkyl or  
cycloalkyl, or

R<sub>9</sub> and R<sub>10</sub> together with the nitrogen to which they are attached form a 5- to 7-membered ring optionally containing an additional heteroatom selected from O, S and NR<sub>6</sub>;



each R<sub>11</sub> is independently:

alkyl,  
OR<sub>12</sub>,  
(D)-aryl,  
(D)-cycloalkyl,  
(D)-heteroaryl or  
halo;

each R<sub>12</sub> is independently

hydrogen,  
(D)-aryl or  
alkyl;

each R<sub>13</sub> is independently:

hydrogen or  
C<sub>1</sub> - C<sub>4</sub> alkyl;

R<sub>14</sub> is independently selected from the group consisting of:

hydrogen,  
halo,  
alkyl,  
(D)-cycloalkyl,  
alkoxy or  
phenyl;

R<sub>15</sub> is independently:

hydrogen,  
halo,  
alkyl,

(D)-cycloalkyl,  
alkoxy or  
phenyl;

Cy is selected from aryl, 5- or 6-membered heteroaryl, 5- or 6-membered heterocyclyl or 5- to 7-membered carbocyclyl;

A is a bond or CH<sub>2</sub>;

D is a bond or CH<sub>2</sub>;

Y is NR<sub>9</sub> or O;

n is 0, 1 or 2;

o is 0 or 1;

p is 0 or 1;

s is 0 – 3

v is 0 or 1.

3. The compound of claim 1 or 2, wherein

each R<sub>1</sub> is independently:

cyano,

nitro,

halo,

alkyl,

(D)-heterocyclyl,

(D)-N(R<sub>15</sub>)<sub>2</sub>,

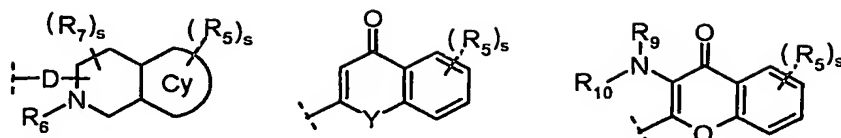
(D)-NR<sub>15</sub>COR<sub>15</sub>,

(D)-NR<sub>15</sub>CON(R<sub>15</sub>)<sub>2</sub>,

(D)-NR<sub>15</sub>C(O)OR<sub>15</sub> or

(D)-NR<sub>15</sub>SO<sub>2</sub>R<sub>15</sub>;

R<sub>2</sub> is:



R<sub>3</sub> is (CH<sub>2</sub>)-phenyl or (CH<sub>2</sub>)-naphthyl, substituted with one or two substituents selected from the group consisting of perfluoroalkoxy, halo, alkyl, alkoxy and haloalkyl;

each R<sub>5</sub> is independently:

hydrogen,  
halo,  
alkyl,  
hydroxy,  
S-alkyl,  
SO<sub>2</sub>-alkyl or  
alkoxy;

R<sub>6</sub> is hydrogen;

R<sub>7</sub> is hydrogen;

R<sub>9</sub> and R<sub>10</sub> are each independently:

hydrogen or  
alkyl, or

R<sub>9</sub> and R<sub>10</sub> together with the nitrogen to which they are attached form a 5- to 6-membered ring optionally containing an additional oxygen atom;

R<sub>12</sub> is hydrogen or (D)-aryl

each R<sub>13</sub> is independently:

hydrogen,  
methyl or  
ethyl;

R<sub>14</sub> is independently:

hydrogen,  
halo,  
alkyl,  
alkoxy or  
phenyl;

R<sub>15</sub> is independently:

hydrogen,  
halo,  
alkyl,  
alkoxy or  
phenyl;

Cy is:

aryl or  
heteroaryl;

D is a bond;

n is 1 or 2;

o is 0;

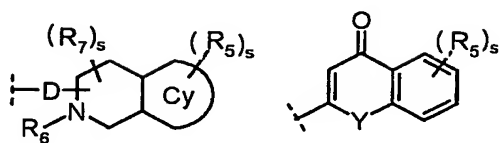
p is 0;

s is 0 - 2.

4. The compound of claim 1, 2 or 3 wherein

$R_1$  is (D)-heterocyclyl;

$R_2$  is:



$R_3$  is (CH<sub>2</sub>)-phenyl or (CH<sub>2</sub>)-naphthyl, unsubstituted or substituted with one or two halogen atoms;

each  $R_5$  is independently:

hydrogen,  
isopropyl,  
hydroxy,  
alkoxy,  
S-alkyl or  
SO<sub>2</sub>-alkyl;

$R_6$  is hydrogen;

$R_7$  is hydrogen;

$R_9$  and  $R_{10}$  are each independently:

hydrogen or

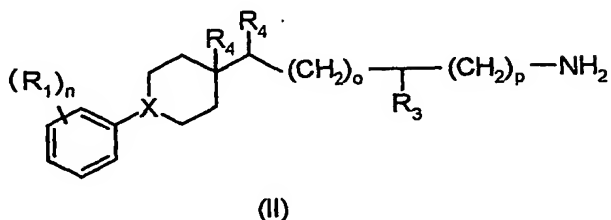
alkyl, or

R<sub>9</sub> and R<sub>10</sub> together with the nitrogen to which they are attached form a 5- to 6-membered ring optionally containing an additional oxygen atom;

Cy is benzene;

s is 0 or 1.

5. An intermediate compound of structural formula (II)



wherein X, R<sub>1</sub>, R<sub>3</sub>, R<sub>4</sub>, n, o and p are as defined in claim 1.

6. The compound of any of claims 1 to 5 for use as a medicament.
7. Use of the compound of any of claims 1 to 5 for the preparation of a medicament for the treatment or prevention of disorders, diseases or conditions responsive to the inactivation or activation of the melanocortin-4 receptor in a mammal.
8. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of cancer cachexia.

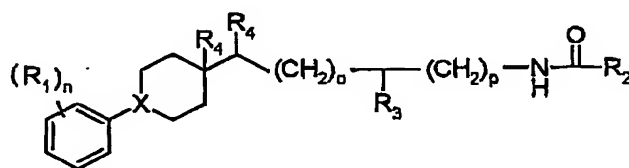
9. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of muscle wasting.
10. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of anorexia.
11. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of anxiety and/or depression.
12. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of obesity.
13. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of diabetes mellitus.
14. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of male or female sexual dysfunction.
15. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of erectile dysfunction.
16. A pharmaceutical composition which comprises a compound of any of claims 1 to 5 and a pharmaceutically acceptable carrier.

## AMENDED CLAIMS

[received by the International Bureau on 12 July 2004 (12.07.04);  
original claims 1-16 replaced by amended claims 1-15]

New Claims 1 - 15

1. A compound of structural formula (I):



(I)

or a pharmaceutically acceptable salt or a solvate thereof, wherein

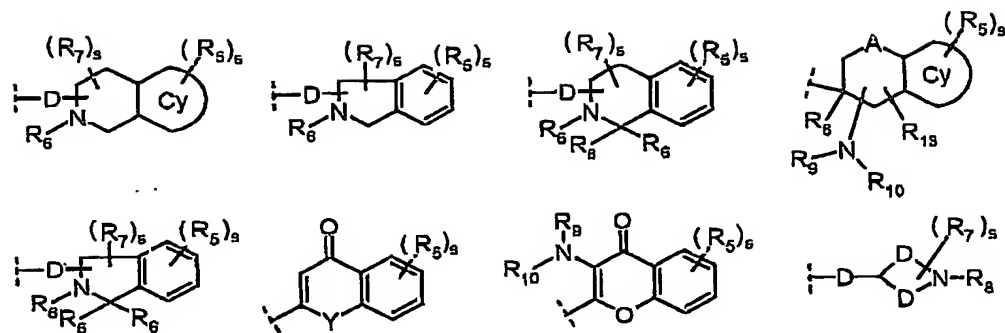
R<sub>1</sub> is independently:

hydrogen,  
hydroxy,  
cyano,  
nitro,  
halo,  
alkyl,  
alkoxy,  
haloalkyl,  
(D)-C(O)R<sub>15</sub>,  
(D)-C(O)OR<sub>15</sub>,  
(D)-C(O)SR<sub>15</sub>,  
(D)-C(O)-heteroaryl,



(D)-C(O)-heterocyclyl,  
 (D)-C(O)N(R<sub>15</sub>)<sub>2</sub>,  
 (D)-N(R<sub>15</sub>)<sub>2</sub>,  
 (D)-NR<sub>15</sub>COR<sub>15</sub>,  
 (D)-NR<sub>15</sub>CON(R<sub>15</sub>)<sub>2</sub>,  
 (D)-NR<sub>15</sub>C(O)OR<sub>15</sub>,  
 (D)-NR<sub>15</sub>C(R<sub>15</sub>)=N(R<sub>15</sub>),  
 (D)-NR<sub>15</sub>C(=NR<sub>15</sub>)N(R<sub>15</sub>)<sub>2</sub>,  
 (D)-NR<sub>15</sub>SO<sub>2</sub>R<sub>15</sub>,  
 (D)-NR<sub>15</sub>SO<sub>2</sub>N(R<sub>15</sub>)<sub>2</sub>,  
 (D)-NR<sub>15</sub>(D)-heterocyclyl,  
 (D)-NR<sub>15</sub>(D)-heteroaryl,  
 (D)-OR<sub>15</sub>,  
 OSO<sub>2</sub>R<sub>15</sub>,  
 (D)-[O]<sub>v</sub>(C<sub>3</sub> - C<sub>7</sub> cycloalkyl),  
 (D)-[O]<sub>v</sub>(D)aryl,  
 (D)-[O]<sub>v</sub>(D)-heteroaryl,  
 (D)-[O]<sub>v</sub>(D)-heterocyclyl (wherein heterocyclyl excludes a heterocyclyl containing a single nitrogen when v=1),  
 (D)-SR<sub>15</sub>,  
 (D)-SOR<sub>15</sub>,  
 (D)-SO<sub>2</sub>R<sub>15</sub> or  
 (D)-SO<sub>2</sub>N(R<sub>15</sub>)<sub>2</sub>,  
 wherein alkyl, alkoxy, cycloalkyl, aryl, heterocyclyl and heteroaryl are unsubstituted or substituted;

R<sub>2</sub> is:



R<sub>3</sub> is independently:

(D)-aryl or

(D)-heteroaryl,

wherein aryl and heteroaryl are unsubstituted or substituted;

R<sub>4</sub> is H or a bond;

each R<sub>5</sub> is independently:

hydrogen,

halo,

alkyl,

haloalkyl,

hydroxy,

alkoxy,

S-alkyl,

SO<sub>2</sub>-alkyl,

O-alkenyl

S-alkenyl

$\text{NR}_{15}\text{C}(\text{O})\text{R}_{15}$ ,

$\text{NR}_{15}\text{SO}_2\text{R}_{15}$ ,

$\text{N}(\text{R}_{15})_2$ ,

(D)-cycloalkyl or

(D)-aryl (wherein aryl is phenyl or naphthyl),

(D)-heteroaryl or

(D)-heterocyclyl (wherein heterocyclyl excludes a heterocyclyl containing a single nitrogen), and

wherein aryl, heteroaryl, heterocyclyl, alkyl or cycloalkyl is unsubstituted or substituted, and two adjacent  $\text{R}_5$  may form a 4- to 7-membered ring;

each  $\text{R}_6$  is independently:

hydrogen,

alkyl,

$\text{C}(\text{O})$ -alkyl,

(D)-aryl or

cycloalkyl;

each  $\text{R}_7$  is independently:

hydrogen,

alkyl,

(D)-aryl,

(D)-heteroaryl,

(D)- $\text{N}(\text{R}_9)_2$ ,

(D)- $\text{NR}_9\text{C}(\text{O})$  alkyl,

(D)- $\text{NR}_9\text{SO}_2$  alkyl,

(D)- $\text{SO}_2\text{N}(\text{R}_9)_2$ ,

(D)- $(\text{O})_r$  alkyl,

(D)-(O)<sub>r</sub>(D)-NR<sub>9</sub>COR<sub>9</sub>,  
(D)-(O)<sub>r</sub>(D)-NR<sub>9</sub>SO<sub>2</sub>R<sub>9</sub>,  
(D)-(O)<sub>r</sub>-heterocyclyl or  
(D)-(O)<sub>r</sub>(alkyl)-heterocyclyl;

each R<sub>8</sub> is independently:

hydrogen,  
alkyl,  
(D)-aryl,  
C(O) alkyl,  
C(O)-aryl,  
SO<sub>2</sub>-alkyl or  
SO<sub>2</sub>-aryl;

R<sub>9</sub> and R<sub>10</sub> are each independently:

hydrogen,  
alkyl or  
cycloalkyl, or

R<sub>9</sub> and R<sub>10</sub> together with the nitrogen to which they are attached form a 5- to 8-membered ring optionally containing an additional heteroatom selected from O, S and NR<sub>6</sub>,

wherein alkyl and cycloalkyl are unsubstituted or substituted;

R<sub>13</sub> is:

hydrogen or  
alkyl;

each R<sub>15</sub> is independently:

hydrogen,  
alkyl,

haloalkyl,  
(D)-cycloalkyl,  
(D)-aryl (wherein aryl is phenyl or naphthyl),  
(D)-heteroaryl or  
(D)-heterocyclyl,  
wherein heterocyclyl excludes a heterocyclyl containing a single nitrogen,  
and wherein aryl, heteroaryl, heterocyclyl, alkyl and cycloalkyl is  
unsubstituted or substituted;

Cy is:

aryl,  
5- or 6-membered heteroaryl,  
5- or 6-membered heterocyclyl or  
5- or 7-membered carbocyclyl;

A is a bond, O, S(O)<sub>u</sub>, NR<sub>8</sub> or CH<sub>2</sub>;

D is a bond or alkylene;

X is N or CH;

Y is O or NR<sub>8</sub>;

n is 1 - 4;

o is 0 - 2;

p is 0 - 2;

r is 0 or 1;

s is 0 - 5;

u is 0 - 2;

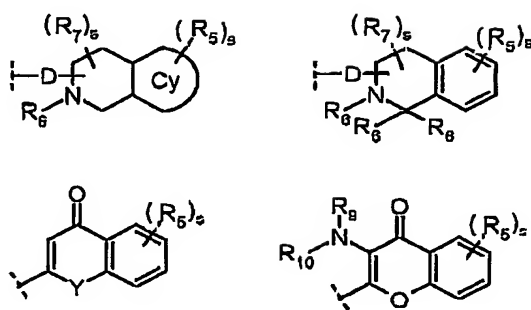
v is 0 or 1.

2. The compound of claim 1, wherein

each R<sub>1</sub> is independently:

hydrogen,  
hydroxy,  
cyano,  
nitro,  
halo,  
alkyl,  
alkoxy,  
haloalkyl,  
(D)-N(R<sub>15</sub>)<sub>2</sub>,  
(D)-NR<sub>15</sub>COR<sub>15</sub>,  
(D)-NR<sub>15</sub>CON(R<sub>15</sub>)<sub>2</sub>,  
(D)-NR<sub>15</sub>C(O)OR<sub>15</sub>,  
(D)-NR<sub>15</sub>C(R<sub>15</sub>)=N(R<sub>15</sub>),  
(D)-NR<sub>15</sub>C(=NR<sub>15</sub>)N(R<sub>15</sub>)<sub>2</sub>,  
(D)-NR<sub>15</sub>SO<sub>2</sub>R<sub>15</sub>,  
(D)-NR<sub>15</sub>SO<sub>2</sub>N(R<sub>15</sub>)<sub>2</sub> or  
(D)-heterocyclyl;

R<sub>2</sub> is:



R<sub>3</sub> is (CH<sub>2</sub>)-phenyl or (CH<sub>2</sub>)-naphthyl, unsubstituted or substituted with one to three substituents selected from the group consisting of cyano, nitro, perfluoroalkoxy, halo, alkyl, (D)-cycloalkyl, alkoxy and haloalkyl;

each R<sub>5</sub> is independently:

hydrogen,  
halo,  
alkyl,  
haloalkyl,  
hydroxy,  
alkoxy,  
S-alkyl,  
SO<sub>2</sub>-alkyl,  
O-alkenyl or  
S-alkenyl;

each R<sub>6</sub> is independently:

hydrogen or  
alkyl;

each R<sub>7</sub> is independently:

alkyl,  
hydrogen,  
(D)-aryl,  
(D)-heteroaryl,  
(D)-N(R<sub>9</sub>)<sub>2</sub>,  
(D)-NR<sub>9</sub>C(O)alkyl or  
(D)-NR<sub>9</sub>SO<sub>2</sub>alkyl;

R<sub>9</sub> and R<sub>10</sub> are each independently:

hydrogen,

alkyl or

cycloalkyl, or

R<sub>9</sub> and R<sub>10</sub> together with the nitrogen to which they are attached form a 5- to 7-membered ring optionally containing an additional heteroatom selected from O, S and NR<sub>6</sub>;

each R<sub>11</sub> is independently:

alkyl,

OR<sub>12</sub>,

(D)-aryl,

(D)-cycloalkyl,

(D)-heteroaryl or

halo;

each R<sub>12</sub> is independently

hydrogen,

(D)-aryl or

alkyl;

each R<sub>13</sub> is independently:

hydrogen or

C<sub>1</sub> - C<sub>4</sub> alkyl;

R<sub>14</sub> is independently selected from the group consisting of:

hydrogen,

halo,

alkyl,

(D)-cycloalkyl,

alkoxy or



phenyl;

R<sub>15</sub> is independently:

hydrogen,  
halo,  
alkyl,  
(D)-cycloalkyl,  
alkoxy or  
phenyl;

Cy is selected from aryl, 5- or 6-membered heteroaryl, 5- or 6-membered heterocyclyl or 5- to 7-membered carbocyclyl;

A is a bond or CH<sub>2</sub>;

D is a bond or CH<sub>2</sub>;

Y is NR<sub>9</sub> or O;

n is 0, 1 or 2;

o is 0 or 1;

p is 0 or 1;

s is 0 – 3

v is 0 or 1.

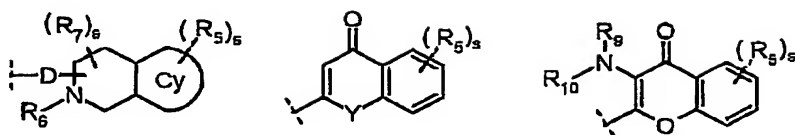
3. The compound of claim 1 or 2, wherein

each R<sub>1</sub> is independently:

cyano,  
nitro,  
halo,

alkyl,  
 (D)-heterocyclyl,  
 (D)-N(R<sub>15</sub>)<sub>2</sub>,  
 (D)-NR<sub>15</sub>COR<sub>15</sub>,  
 (D)-NR<sub>15</sub>CON(R<sub>15</sub>)<sub>2</sub>,  
 (D)-NR<sub>15</sub>C(O)OR<sub>15</sub> or  
 (D)-NR<sub>15</sub>SO<sub>2</sub>R<sub>15</sub>;

R<sub>2</sub> is:



R<sub>3</sub> is (CH<sub>2</sub>)-phenyl or (CH<sub>2</sub>)-naphthyl, substituted with one or two substituents selected from the group consisting of perfluoroalkoxy, halo, alkyl, alkoxy and haloalkyl;

each R<sub>5</sub> is independently:

hydrogen,  
 halo,  
 alkyl,  
 hydroxy,  
 S-alkyl,  
 SO<sub>2</sub>-alkyl or  
 alkoxy;

R<sub>6</sub> is hydrogen;

R<sub>7</sub> is hydrogen;

R<sub>9</sub> and R<sub>10</sub> are each independently:

hydrogen or

alkyl, or

R<sub>9</sub> and R<sub>10</sub> together with the nitrogen to which they are attached form a 5- to 6-membered ring optionally containing an additional oxygen atom;

R<sub>12</sub> is hydrogen or (D)-aryl

each R<sub>13</sub> is independently:

hydrogen,

methyl or

ethyl;

R<sub>14</sub> is independently:

hydrogen,

halo,

alkyl,

alkoxy or

phenyl;

R<sub>15</sub> is independently:

hydrogen,

halo,

alkyl,

alkoxy or

phenyl;

Cy is:

aryl or

heteroaryl;

D is a bond;

n is 1 or 2;

o is 0;

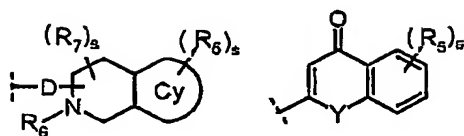
p is 0;

s is 0 - 2.

4. The compound of claim 1, 2 or 3 wherein

$R_1$  is (D)-heterocyclyl;

$R_2$  is:



$R_3$  is (CH<sub>2</sub>)-phenyl or (CH<sub>2</sub>)-naphthyl, unsubstituted or substituted with one or two halogen atoms;

each  $R_5$  is independently:

hydrogen,

isopropyl,

hydroxy,

alkoxy,

S-alkyl or

SO<sub>2</sub>-alkyl;

R<sub>6</sub> is hydrogen;

R<sub>7</sub> is hydrogen;

R<sub>9</sub> and R<sub>10</sub> are each independently:

hydrogen or

alkyl, or

R<sub>9</sub> and R<sub>10</sub> together with the nitrogen to which they are attached form a 5- to 6-membered ring optionally containing an additional oxygen atom;

Cy is benzene;

s is 0 or 1.

5. The compound of any of claims 1 to 4 for use as a medicament.
6. Use of the compound of any of claims 1 to 4 for the preparation of a medicament for the treatment or prevention of disorders, diseases or conditions responsive to the inactivation or activation of the melanocortin-4 receptor in a mammal.
7. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of cancer cachexia.
8. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of muscle wasting.

9. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of anorexia.
10. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of anxiety and/or depression.
11. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of obesity.
12. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of diabetes mellitus.
13. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of male or female sexual dysfunction.
14. Use according to claim 6 for the preparation of a medicament for the treatment or prevention of erectile dysfunction.
15. A pharmaceutical composition which comprises a compound of any of claims 1 to 4 and a pharmaceutically acceptable carrier.